

CLAIMS

1. A takeout mechanism for gripping a bottle formed at the  
blow station of an I.S. machine and removing it from the  
5 blow station and depositing the gripped bottle at a  
deposit location, wherein the bottle has an upper neck  
portion and a lower body portion comprising

a takeout head assembly including gripper means  
for gripping a bottle,

10 a takeout arm for supporting said takeout head  
assembly,

support means for supporting said takeout arm  
for displacement between a pick-up position and the  
deposit position,

15 first displacement means for displacing said  
takeout arm between said pick-up and deposit positions,

said takeout head assembly further comprising a  
cooling tube selectively displaceable between an up  
position and a down position, and

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said second displacement means including a profiled  
25 actuator including a displacement profile for controlling  
the displacement of the blow tube from the up position to  
the down position,

the displacement profile being selectively defined to  
correlate with the cooling requirements of the bottle as  
30 the blow tube is displaced from the up position to the  
down position.

2. A takeout mechanism according to claim 1, wherein said  
profiled actuator is a servomotor.

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3. A takeout mechanism according to claim 1, wherein said  
displacement profile will additionally cause said cooling  
tube to dwell at the bottom of the bottle for a selected  
period of time.

4. A takeout mechanism according to claim 1, wherein the  
profiled actuator of said second displacement means  
further includes a displacement profile for controlling  
the displacement of the blow tube from the down position  
5 to the up position,

the displacement profile being selectively defined to  
correlate with the cooling requirements of the bottle as  
the blow tube is displaced from the up position to the  
down position.

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5. A takeout mechanism according to claim 1, wherein the  
bottle has a lower body portion and an upper neck portion  
and there is less heat to be removed from the up position  
to the location where the upper neck portion meets the  
15 lower body portion than from the location where the upper  
neck portion meets the lower body portion to the bottom of  
the blown parison and the profile displaces the blow tube  
from the up position to the position where the upper neck  
portion meets the lower body portion at an average  
20 velocity higher than the average velocity at which the  
profile displaces the blow tube from the location where  
the upper neck portion meets the lower body portion to the  
bottom of the blown parison.

25 6. A takeout mechanism according to claim 5, wherein said  
profiled actuator displacement profile will additionally  
displace the cooling tube from the down position up to the  
location where the upper neck portion meets the lower body  
portion at an average velocity lower than the average  
30 velocity at which the cooling tube will be displaced from  
the location where the upper neck portion meets the lower  
body portion to the up position.